

(2)

②) will be
one sectioned for nuclear research
because one leaking

1980 tanks installed
1983 tanks decontaminated

for waste tanks currently to
drum storage #1
alarm system for tanks
concrete tanks leaking
from acid alkali tanks previously

(33) underground oil well and air pipe

13 of seam
- tanks from hydraulic equipment
- all surrounded by
concrete or metal frames
- 4 steel pipe
- underground piping
- concrete tanks
- plate glass pump to pump to
overhead piping to oil
reservoir
1980 - oil discharge to leachate

(22)

Conant order investigation for oil
source

• 65-70% of samples found to be

leaking

under order

samples taken from - field dry
sand / concrete mixture 1 plunger
method w/ reduced w/ filter

soft sealant -
corked oil in barrels -

Porterlite vacuum system +
overhead piping system
1980 - 1983

varied

- number - 7 feet deep

1 foot in diameter
700 - 800 gallons

(10) - one of these samples

3000 - 4000 gallons

and storage tank for
soaking water

- also sealed off as part
of the conant order

(23)

(34)

underground oil storage tanks
 (400 - 1500 gallons in a)
 machine

- used to hold oil informed
 to seepage
 5 tanks

- filled - no longer used
- checked for leaks but the same time as (33) - 100
- looks good
- same decantation tank
- filled w/ sand/sand mixture

capacity ranged from 1000-3000
 1000-1500 & 3000

no piping associated w/ these
 units

(35)

Snow Sputum

Petroleum in plant
 Many ruptures w/ in the manufacturing
 equipment
 will find in discharge to lay truck
 connected either to - udo or pump to

handle oily waste & to back out
waste to reduce oil discharge
1950 + 1953 sewers - clay +
concrete

Materials have checked into
these sewers

- all roof houses kept outside
of building & sent to new
or nearby mine piping
& discharge through #93
(permitted presently under review)

abandoned under floor level all
piping - installed dump
pumps + pumps periodically
- pumped to city main
side of UTR

located on old system -
pipes cut off infiltration
& residual water from
area

Oil + drains on the parking lot
stack off the property
- stick off north end
- collects parking lot runoff

(25)

Not in current permit - proposed
catalall - used new
address in as a new discharge
on new permit application.
Colia - Penitit buildings
allowing discharge at this point - now
will be revised under the
permits

Dumps - called whatever gets into
the abandoned sewer line
- added in 1985 + 1986
- lines are over load
old storm sewer system below the
building -

new system is above ground until
outflow of the building ~~is~~ passes
walls
overload lines

Establishment of plant
finished end of 1985 early 1986
May - August 1985

(20)

new leader system installed

(36) (37)

ventilating pipes & from barrel &
silencer improved

(38) (6)
Maintenance spray built
for tank car

Maintenance - for welding
tire small
framing

? 41, 45, 46 - fire

break tank of nozzle supp
strong see air away from
the ignition

? 42 - burns vented see the atmosphere
barrel

43 - break over for dry gas

? 44 - last exhausts
- drying, burns, last exhaust

45 - last
- exhaust

(27)

48 hand wpt

Other Areas of concern

N - Xylene Spills - (2)

Xylene Spill - Xylene tanks - Lsd to
concent. nitr.

Dec. 1984 - testing & mitigation

of leak
early 1985 - reparation of

tanks removed
frnts + bags
interceptor
gas. Wrecker isolated plant
from 3 Xylene tanks

In process of stabilizing xylene tanks
tanks - contaminated water

and so severe - plan

new gas

Old tanks as of 1/1/86
vacuum truck removed as much
as possible. I went up to the works

(27.9)

(B)

- HCl used in disengaged winter process - vessel to clean
resins
Storage tank in the basement of the plant
- contained within building
- Some releases and fire at oil

(C)

Hydraulic Oil release (2)

- Hot tank near a storm sewer -
1985 Sep 10 19 gal. to
storm sewer which went
to underground tank #1
Oil boom at entrance
- Manhole cleaned and by outside contractor

July 25, 1985

Aug 28, 1985

- Abandoned) swamp (10)
- oil found around the pump
- during excavation
- vacuumed up & sent to
laboratory for analysis
- swamp abandoned by the time

(22)

April 19, 1986

- same -
Jan 4 removed -

remained -

- brick pipe placed below
- pump and pumpable
- sand removed

* Hydraulix oil release - (W.W.P from
oil rendering system back to
basement of plant - 2" line

found to be punctured
- removed above ground

- under ground pipe observed
- all sections down to
cuffs to W.W.P so should
be removed

May 16, 1986

* June 16, 1986 - hydraulix oil

- vacuum distiller broken
- over flow tank full
- 1 gallon of oil released
- sampled ICB, signs, fences

(3)

Cleaned up
in complex - no flocs
in air in TEPs -

April 17, 1986 - Hydronic oil release

April 9, 1987 - Hydronic Oil release
- outfall oil - small
amount of free oil in tank
- hydronic piping insulation to
absorb oil - pump to
installation of other leaders
on west side of the plant

(1) Process water spill

Overflow of cooling tower and oil
water system from system
down to storm sewer system
due to the leaking pump

(2) Process water spill
June 1987

acid + fines from HCl release
caused damage to the control

(32)

treated H2O was ready for discharge
to the STW but was instead
released through the storm water
inflow.

(F)

PCB contamination beneath building
13 pumps many of which leaking
PCBs

abandoned in place
1985 consent order - above permit
discharge limits - material
under floor followed general
conduct into storm sewer
removal proof leaders & installed
pumps to collect

Building foundation & footers cut as
a big tank & contact the PCB
within the area - no a legal way

No digging under the building
have been completed - only
outside the building

(31)

1985 - removal under

- extensive

wells + soil berm'

large cluster
of wells for linear
spillsHazardous organic
liquid spills

(G) Long Creek to

Chongogada Lake

PCB contamination - Meadow Run
Long CreekPCBs settle in Long Creek
bottom - in middle length of creek

removal - removed under

1970 - check dredged material

at site

bank

will do rock placement

as needed

from banks removed
+ put in Meadow Brook -

park area - no expense -

used to cover parking lot

280 g.d³

(30)

Check dredged for
- undred site
- drawing on

same ppm = same part

40 ppm to 4.1 ppm - in top

bottom 100 x 100 feet
more Meadon Dredge

rise assessment for meadowbank

- plan to take material from
meadowbank & put in the

surface suspended at

6 mft water divide

- 0.8 c approximated - in
process of finding the
constant value

remained

June 1989 -
Aug 1989 - original closed

(H)

Growth rate estimation
- all other values - PCBs,
humics,

Additional Items

- A-11 - Poured strange Building
prior to 1968 - Tank Farm
contained many products for
planting - steel tanks
concrete containment & portion
of tank cracked
no reported regular - everything
indirect will be investigated

A-21

- Kilene Unit - molten K014
March unit - above ground
solid contained areas
several do work, concentrated
zincite removed, went down
to bottom & disposed in
secure landfill
- cause
- separate storage areas
- 1967 discontinued
use
- Paint stripping unit
- Leaking
1988 removed see

Junk - P.D.O. trustee
had paint sludge
stripped from parts
and scattered

Treatment operation — liquids
to concentrate from
distilled 1973

A-3

14 major paint booths

8 in 11 septum

6 in 10 septum

oil permitted emission points
drive booth from common point
5 or 6 had spray booths

metal junked booths - booths
shaved tanks

tanks collected water that
gives to Hoffman filter
now switching to Niles

oil emulsion septum
- now normally cleaned
+ about 50 wipers for

estimated price to align off-site
immediately

A-4

Skating rink building
4 cord packed lumber

Per A minute

\$16, Holme and
12 - \$1

Water supply

Oneonta County

City of Oneonta

Lake Ontario

A

Skaneateles Lake (one of
fifteen lakes)

City water tanks w/ County water

No one within this area w/ wells on
the property

Oneonta Lake -
City Creek drainage
to it

(36)

Loy Stark - Class D - suitable
for drawing my - no problem
Dimensional
(Orange and black drawing 100x100

Under road & front

Process Info

130 vinylchloride resins

vinil chloride - viscous plastic

polymer - PVC, vinyl, polypropylene

80,000,000 lb /yr

- polypropylene & ABS

acrylonitrile butadiene styrene
V3 - polypropylene

plex

nylons

polystyrene

cell form plastic materials -

cheap can be - expensive &

can change the process

again organic

painting - primary

stainless steel

high solids recovered

Polymerized waste liquid recovered

waste streams

- flushing - vented tank in trailer
- being held in plastic
- condensate oil plastics
- being converted to oil

bowl condensate no residue

floor sweeping - do county landfill
any contamination oil will go to
sewer landfill
required no much residue as possible

puke - automatic ~~scraper~~ him

- unknown pieces &

3rd largest injection motor in US
motor

Done blending of polymers & color correction
Anode
plastics - held from new pellets
to liquid
+ solvent tank see notes
- held cool - in mold

(38)

20 30% net to through
the printing stream
16000 rail car - vacuum conveyors
throughput

3500-4000 jobs/wk (because of color)

General

85 acres

(\\$4.7)

~~875,000~~ sq feet under
the roof

1950

- plant built
- swing land prior to
used by Gmc
area around - separate - planned
site

~ 1550 employees

(list of morning attendees in folder)
copy of plates to Dick Lurkin

11:45 Break for lunch

(31)

End of coverage of Survey

Bethel USA

11:45 pm

Small Lager
Pond - snow

full w/ snow - ice - trucks

+ 10 to 15 ft

Right bank free

~ 5 feet deep near

opposite end 2-3 feet

Bank down line of tree

remains of tree down

+ 10 feet

Wet ground around

around

Small stream flowing

Rocky bottom in back

skinned, water by snowdrifts

6. Post of vision
marked with

(4)

on part of skin

of collection specimen -

only slight dark stain

Summer - la jeam

comes from
red-lake
min.

and abraded
parts

on the old specimen
appeared in
the same
place

old specimen
from
old collection
of
Bijou

Cold

specimen
- collected at
from sea in the
known
area of
Mare with

Wanted written and printed

N.W.L.

Elay dass L. 1963 only

plan or
plan

35-1 X 45 square

1 feet diameter around

15-1 X 45 square

depth from single layer

each wall 15-1 high

plan on a line

plan on a line

cross form

cross form

bottom water pipe from roof
spills back to lantern

new stone stones

1 doorways through 663

1 Oct 21 063

was proposed and passed
new system established
Dec 1963

city plan on number of
buildings

Plan showing - Capital City
New plan
comparative
sores
plan

(4)

only skin (superficial) in rocks

only weathered in limestone (plate
rock surface) & very new on
surface of limestone only

limestone
limestone
limestone

discharge point in little fence (partly
limestone very close to the fence)

bottom of hill limestone

bottom of hill limestone
bottom of hill limestone
bottom of hill limestone
bottom of hill limestone

bottom of hill limestone

bottom of hill limestone
bottom of hill limestone
bottom of hill limestone
bottom of hill limestone



Riverhouse

surf
dark column

- 6 ft x 6 ft

2) pumps

one duty

one light

one

one

one duty -
one light

No interplay
existing - no up
or down

Markhole for your collection
to be dumped

very slight air column.

1 end side arm off drain
to happen outlet to the
basement

collected in the sump

1 from pump tank to the
Riverhouse pump

(44)

ash silo -

open to screen medium
resized landfill

1953 constructed
storage silos to ash

ash goes to ash pit + through
piping to steel ash
to Jordan pond in located at
the top of the pile into ash
is transferred by silo

ash pits

- collected ash from pit(s)
powerhouse pit
- through piping to silos
- air passed from explosive
gas used to remove dust
- dust from silos collected
in bags
- ↳ goes to furnace area

Spent Coal -
Elevator Pit Pumped
- Reservoir of water

34 + X 3 ft. X 0
Pumped to greenhouse

Bump
- coal pile run-off

→ Pump Storage Area #2

Pump to collect oil & releases

oil stains on pump walls &
pump pit &
removal
concrete in pump
condition

pump was pumped
to oil water
but separator (new)
before added to first tail tank
when pump was installed

→ Dredging in ditch trenches
- Sieve screen material
collected in trenches
- one around each machine
- pump used French normally
- on a regular basis
some of the French dredges

frequency of pumping out

(46)

are covered w/ steel plates,
oil soak or gun around tanks
as needed

oil

collection pump

- cleanup of a manhole
filled in - sealed

(1) garage - proposed area
now debris

used for storage of PCB
contaminated materials
A - 30 ft^3
roll-offs
lawn furniture - sealed
house

contaminated oil wastes -

designed to store 55 - gal drums
in one location

lumber also contains April
seepage

gutter 4-5 damp full are
held off

Drum Storage Note

(41)

15 x 4 drums + empty paint +
flameless drums

~ 100 empty drums
~ 50 empty drums

asphalt - pale - new container
from condition - acid resistant

11 x 4 drums wash paint + thinning

3 drums of old paint - in
concrete drums
30 drums

empty oil drums
oil drums on pallet,
- broken
old drums back up w/ tie
bar
numerous concrete buckets for

Xylene mixtures
paint & thinner

(48)

Dicklene bengene
old

Past Landfill
- nothing to see.

Overfall 000

- Knob vein (cut for 001)
was for most parceras veins

End 051 day 1 - 3:45

8:00 - 11:18 9

Black stream bed lower banks
- pipe has been discontinued
- black sand down in the
bottom
- sand gravel no a
- sulphur veins

orange - start up 1986
July

(47)

Soil Elevation ft. above

- 1950 stand up

- near deepest

- surface

Infiltration

Soil found in natural areas

- near creek bank

soil pH 2-3

- acidic 1500-1500 ft.

different from the limestone area

to the elevation in which

3 feet deep - 20 inches square

calcareous ground

the ground is sandy - dark

soil - fine, dry, broken

ground - dry

Soil

dunes

- dunes are open

- dunes drift back into the

- dunes to collect

- all dunes where ground are

- sand dunes

- very cold infiltration

Oil pipes to were set
 ↓
 oil Nathan when vessel
 after being connected.

From tanks the building
 2 places where piping has
 been sunk below the building
 to collect oil \$18

Underground oil collection system
 - installed over the period
 from 1973 to 1978-79 (approx)
 1974 - 75

Underground oil storage tanks
 - installed over the same
 time period

Sludge from cleaning previously used
 to sludge collector tank to
 Sludge tank tanks to vacuum
 filled - sludge to conveyor
 walk to waste

Waste TP - effluent benthic
 all drains in basement of
 back to WTP

all tanks were open tanks
cross tanks
Classification
change tanks are outside

Finalization tank

- all water from W.W. pump goes to new tank
- all materials from pump in basement of building come here

19" pipe with a slope drainage
drainage pipes are suspended
tanks in N. basement of the
old tank building.

Build aluminum frame
concrete tank - will follow glass

Coating
old tank leaking on top
no leaking today
but in future

new tank painted
to concrete hollow

Observations
Opportunities



Col.
A. 10

3rd Jack like "to fish" goes in
not upright
Done water w/ only down
back side slow down
economy.

3rd Jack ~~fish~~ goes in
~~back~~ down
~6 inches
of water - Air jet

Received from Minnie winter report

- axles
- contaminated snow
- low concentration of VCs
- Minnie didn't know how to
only water side through

Colden aluminum tanks

→ Speed aluminum storage tanks

4 open wood oil tanks to store

0-1 open concrete bins
tanks 1 gal. per cu. yard

Liner supply
reservoir

reservoir

→ culvert ground and foundation

(5)

1945 - not put on

cylinders in "310"

for administration flotation tank

Batch tank 1 batch tank 2

Sedimentation T flotation 1

Wood walls

wood platform tank 1

Wood tank 1 - for
nitration

open do sedimentation confined
and no opinion on what sand
should be placed along
bottom to o seep
where
calcareous
valley does not open
sand

clean water over them followed valley
process difficult to control
filling - went from
cinders fallen open do
holding tanks (in series-3)
prior to holding tank river

-
condensing filter
from outside plants due to low
water
- removes fine + dense materials
- 2 units,
Gebel in 1965

oil remains at 80° - can contract

Filter hot

Clean

Oil from
cooling + oil bath

remove sediment water in
written over to equal. test
+ through aspiration

clean oil back to melting point
duty oil settle (fuller) vacuum
distillation

oil from packing
duty oil take back to 140°
reduces viscosity 1 halpers work

1 band flared
metallic $\frac{3}{4}$ odm heating

Pumping tank - now receives
oil back - holding point no
storage in place of pump
from glass tube

Panel 2 - 2 cisterns

Seal well used
Daily / Better

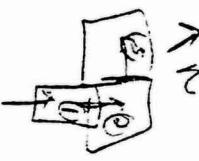


Water well ~ 1/4 acre of tank
oil from surface goes to
tank in oil necklace
option

Well well receives only treated
water - goes over
- goes to carbon

Polymer added in back tanks
Nitr. Nit. ammonia
polymer

- holding tanks (3)
connected under ground
holding 15 min. per



process connected
base

water from clarifier (fr ss side)
from tank (only side)

(1) we have
prefer-

reduced to flow from tanks

✓
minimize of sedimentation
clarifier
tanks

✓
minimize of loss

loss of water
in system
plant
flow rate will

about 2' from top reservoir
station

→ Carbon filtration in series

- cross through - despatch tank

- 47" - cubing

- drain 150' before discharge
4 filters used in parallel
Set up to run in series if
needed

drain 10 sec - to equalization

- drain 10 sec in continuous to
drain valve

flow through - ~ 30 gpm
for only water treated

min. 2', keep in reserve

40-60 damp sand filter - valves
good for PCB's after impurities
removed

Sediment thickness

only base (1) has been
decompacted

comes from sandy and flat
bank

common to both

parts

water level kept below level

of vein

water to
bottom of vein

bottom of vein

depth of 100 ft
sand

drilling from chimney goes less
than 100 ft

Chimney -

polymers added

one decomposed + 100 ft

in another

measured off from point
normal to rock plane

Remained out until
only raining, broken from
the buso camp
- very long stay
Collected in Ham + pump
Lake

Wrote longer in English

Skipped around a couple hours
week
Wrote over hours to sun &
then to rain back to
skipped to spending sun
+ writing pump + pump
to thicker

few not.

up to 35° in
10-11 o'clock

few in August

(1) has been about for it is

not in a different state
now - most likely pers

present

— Dumb — 1100 ft plant only

— Dumb — collected winter from
dinty rock banks and
also often in old remains
winter

— the only winter gossamer
specimens found in Alaska
 $4\frac{1}{2} \times 4\frac{1}{2}$? about
depth unknown

— Malakas 1963

— no intactic feeding done
here. Saw 1.000 of P. PBS for
and certain suspensions thought
— average 18 18 m. Many plants

— Dumb winter temp - collected
overgrown from old remains called
old rock banks from old
areas

— Only old bank was known
— old worn rope skin
— thin epiphytic bank
— many hummocks etc.

Collected sample rates (30) via
circular bender

PCBS

~ 3000 or 3500 gallon capacity

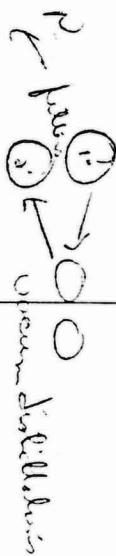
~ 5" circular tube

Vacuum distillation units (2)
oil from duty oil tank -
passed thru a 6 μm filter
from filter to distillation
25 in Hg vacuum
lower, Hg being kept -

installed

1984 or 1985

operated one at a time - one
at a time
process ~ 80 gph in
one unit
different distillations - 2 or 3 filters
to reduce back



from 3° filter to kidney filter
ampullae to 10,000 gpd clean.

- process of oil & sludge removal
mechanical filter

— some oil on the floor of the
oil washing system
some oil scrub pads & oil
removal sweep

Kidney filter tanks will see job



(1)

(2) See cap kidney tanks
(3) Kidney filters

Auto wash oil + force through
filter - one full one
filling

Cased Jackhole

- Removal of airflow and
- Scarping of air at ground
- Vertical bore
- Structural damage - floor
- Slightly damaged in the direction
- Air valve of the power failure
- Needs to be reconditioned tank
- 18 x 14' depth unknown

Paid Room

- Small contained dilute area
- Take to study and remove
- + small hole clean first

Oil contaminated material.

- Contaminated
- Needs to be oil coated pellet
- Part plastic, cardboard
- Change every day or more as needed

of cases

Poured oil contaminant
into ground site well off

✓ PCB contaminated oil *

1 yds³ dumpsite

Mobile

Almond plant

~~Cess Oil Tank~~

B5H

✓ Cess oil tank

Oil and pipe sent me approx 40
cubic oil from pond
Pumped from quick circle <100 gal
Total
estimated 1985

There was a quick underground storage
tank he said has been filled
in

Oil Reclaim Super S18 mobile

Truck for hydraulic oil

10 foot concrete base

pumped on a regular basis
initially not tested

oil pumping unit

used to clean up wells

lines 5

- pump tank and oil well separator - open
to oil well separator system

100' diameter storage

- tank,

~ 1916 a 77 ft stand up

- used exclusively on floor
middle part to bottom drip
+ back of oil spill.

- Paint Room area

= goes directly to the clarifier

- middle well tanks in paint room

- sand filter

100,000 gallon tank in

Paint Room

- Hoffmann Unit

hand spray booth

- 40' by 10' filter

etc.

Hoffmann filter

- original ~ 1918

used from paint back to spray

new spray was filter used

flame arrester
gas well
2000 ft

samples of paint filters

called in hollow. A wood for making
wood o gauge
right on pillar top. No spouts
water pumped up through hollow
ditch to trees as backbone - through
pink rock dump (purple & brown
bunker)

(Castle excavated in stone under
flame rock. Slope between

- top most
stone

steeped stones

drawn up straight

no holes or cracks

construction of wall made solid

2 years old now, nothing broken
weak & in risk to print writing

Hanover Park & Suburbans Lane

- below road
- brick 15 feet to 18 feet high?
- pillars to columns say
- another name? - brick
down printed

TCA ~~replaced~~ (Re 14 11A)
 oil section stand pipe
 installed 10/58
 discontinued 1/1960
 as w/ New Burg oil tank
 - weekly reporting

✓ Kolomo

installed through the neck
 steel tank
 hot salt bath

double tank - middle well on one
 side & outer on another side

to min. 40 sec.

Kolomo salt tank now
 used. Was sulfide acid well.
 so maintained prevent spoiling
 and was used frequently
 date 11/87 removed
 installed 10/23

Paint room - installed - 1973

✓ Undergrund tank

12:30 pm finish UST +
break for lunch

Afternoon
- conducted tour of the
area back to laundry as not

- Afternoon activities
- quarterly annual report (water)
 - look for prevent removal infestation
 - clean environment check
 - copy of RCM under stream
 - uniques
 - county water permit
 - a lot contains from contaminated
material
 - general plant ground w/ stream
water w/ oil
 - general impact w/ stream & tree
cycle w/
 - stream water sample
 - recheck if well not
 - latest drum storage cleanup plan
 - discuss w/ officials

- hydroponic investigation - plant
tissue

copy of photo to Dick Landis
call Bill Kellum w/ additional
questions
- Linda
second

end of OAT
& spirit
meeting
1:45 pm
11/19/89

INDEX

Property of Barbara Hendricks
OPRA Incorporated
Address 245 E 6th St., Ste 813
St. Paul Mn 55101
Telephone (612) 227-6500

This Book is manufactured of a High Grade
50% Rag Ledger Paper having a Water Resist-
ant Surface, and is sewed with Nylon Water-
proof Thread.

Gme Fisher Guide

3/3/89

GMC Fisher Guide

- plate reticle

9 Am -

Lida Lano, GMC
Burb Johnson, DPPA
Craig Larson, DPPA

using the new dinner separator
now tank (14000 ft)
half full

Oil recycling system

- tanks off in the 70's
- separation in the base -
- last few years
for insulation

leaking filter
6 pm
abnormal

(1)

(2)

1°
2°
fuller

11

۶

old specimen

below
time
etc

Resilience
- tested
- ok
failure does not relieve

begin
pleter

Clay Larer, DPK
wild life all pictures

1-1

c-1
Down Stream
So Small

(3)

1-3 - Sun - Dried Storage
" 2

filter press - sorted

1-4 - Dried Storage #2 -
- and
Soil

1-5 - send filter press
- to Soaker

inside of
press board

1-6 - felt paper sled

1-7 - to west

oil drum non
flammable Board

1-8 - oil drum keep wet
well to west

④

1-9 Back Jack #4

1-10 - Potassium / Sodium line

10 S

Wed back

10 west

1-12 Panel Jack #1

10 SE

1-13 -

Cold storage press
Separator to SW

1-14 - 30cc panel jack

(W) big oil

1-15 Dry Cid tank
S

1-16 Rain Cid tank
N

Cyanide tank - 1-17

Sodium borohydride tank - 1-18

Reagent tank #1 - 1-19

- reagent

to SE

holding tank #2 - 100
to SE

holding tank #3 - 1-21

holding tank #1 - 1-22

Cyanide tank #4 - 1-23

Cyanide tank #5 - 1-24

Cyanide tank #6 - 1-25
no photo

Log Skinning
Cyanide tank #3 - 1-26

(5)

(C)

Wood oil tanks	1-26
Sabre bunkers	1-27
Glow contour tanks	1-28
Sludge Tank	1-29
Sludge Tank	1-30
Clinton Archive	1-31
Machine Gun	1-32
Artillery	1-33
Machine Gun	1-34

Incident

1-35

(7)

New Water Stand & area 1-36
Swings to W

Old

Rundish rock - of

P.C.B. container

2-1

10 (E)

2-2

to E

Song in ~~Geococcyx~~
Sturnus prunell

2-3

to E

former W.W.T.P. units
Location to SE

2-4

Codorn Andeanum (Unit

2-5

(8)

Emergency Over flow Pump

2-4 to E

Reservoir 11°C
to 2°C

2-7

Waste oil tank

C.000 gal (C)

Reservoir West P
2-8 to SS

Industrial Waste Pump
Reservoir 2-9 to NC

Waste Oil

fumes
100%
2-10

from in area
2-11 to S

Vacuum distillation units

2-18 to C

Kidney fullers - 2-13 ton.

SOC gas holder subs
2-14 ton

Dum Slaggy -

are being taken

number 1

2-15

2-16

2-17

oil Slaggy

2-18 to C

dum 10 2

Turn Spill ROC A

2-19 ton

Inkspill removal to
2-20 E

Landfill 2-21

(9)

Hourly flow

Neil River 2-22

Wooler River 2-23

Junction 2-24

Outfall Creek 2-25

Lagoon Lagoon 2-25

Outfall Creek 2-26

Gullane 2-27

Hopetoun 2-28

Intercepton 2-29 8-10 S

Indurkine 2-29 8-10 S

(10)

(11)

Sunrise - 2-30
Lorand - 2-30
to Sun

New Stm

Snow

2-31

2-30 -

weak ocean

flat ocean
planilla

Peterson Falls Unit

2-33

2-34

Rain

Rain Sun

2-35

Duty Oil Tinman
Stokes - 2-36

Potable Pumping unit

3-1
Underground well
contains oil

Oil collection tanks

3-2

near S-1

Condensate header

Pump

3-3

Oil collection pens

3-4

Oil header supply (13)
tanks

3-5

Oil header supply tanks

3-6

(12)

Old Redain

Slopes

3-7

Kulne land 3-8

Cat pits to side

pagehouse - over a side

scrubby for the birds

Circa

Gardiner Sup

3-9

Cat pit

3-10 & 3-11

3-12 Cat hole

(13)

Powered instruments

Sun

3-13

bands

3-14
amp

11:00 L & plates

Plant instance

3-14

14

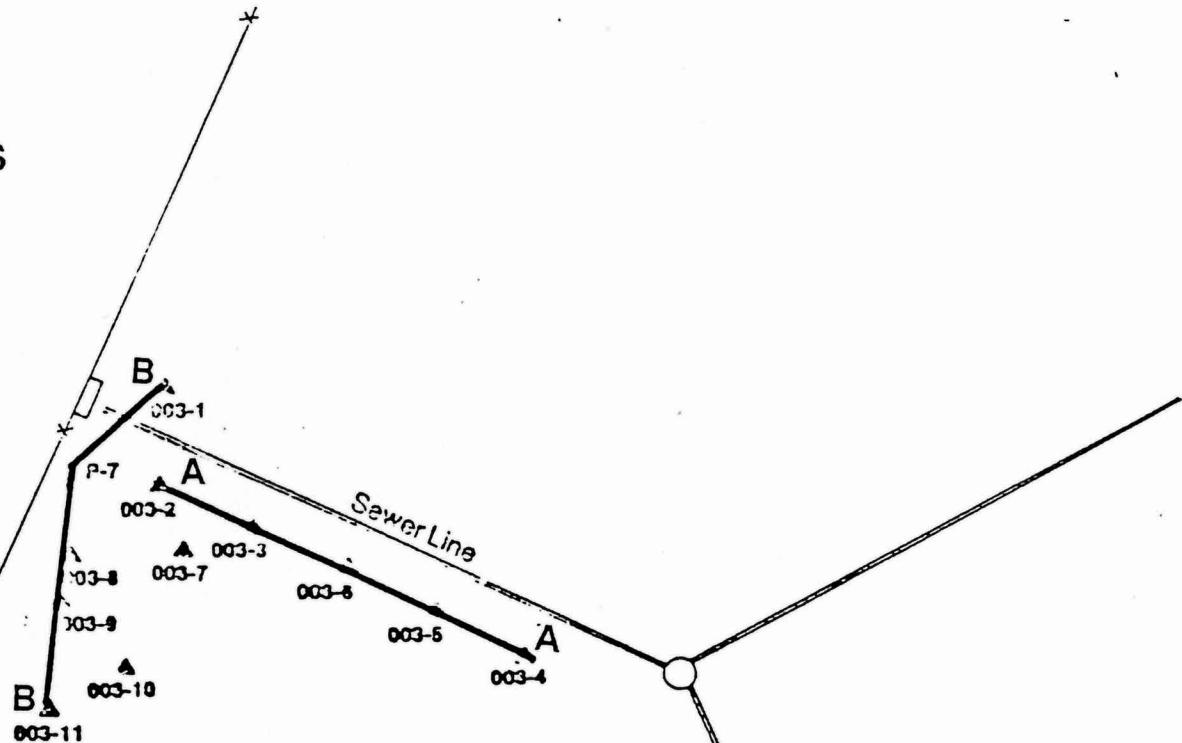
ATTACHMENT C

FIGURE C-1
TRACE OF CROSS-SECTIONS

[1]

Chain Link Fence

N



Legend

- ▲ Soil Boring
- Monitoring Well
- Trace of Cross-Section

0 10 20 40
Scale in Feet
REFERENCE 119

Cross-Section "B"

Scale in Feet

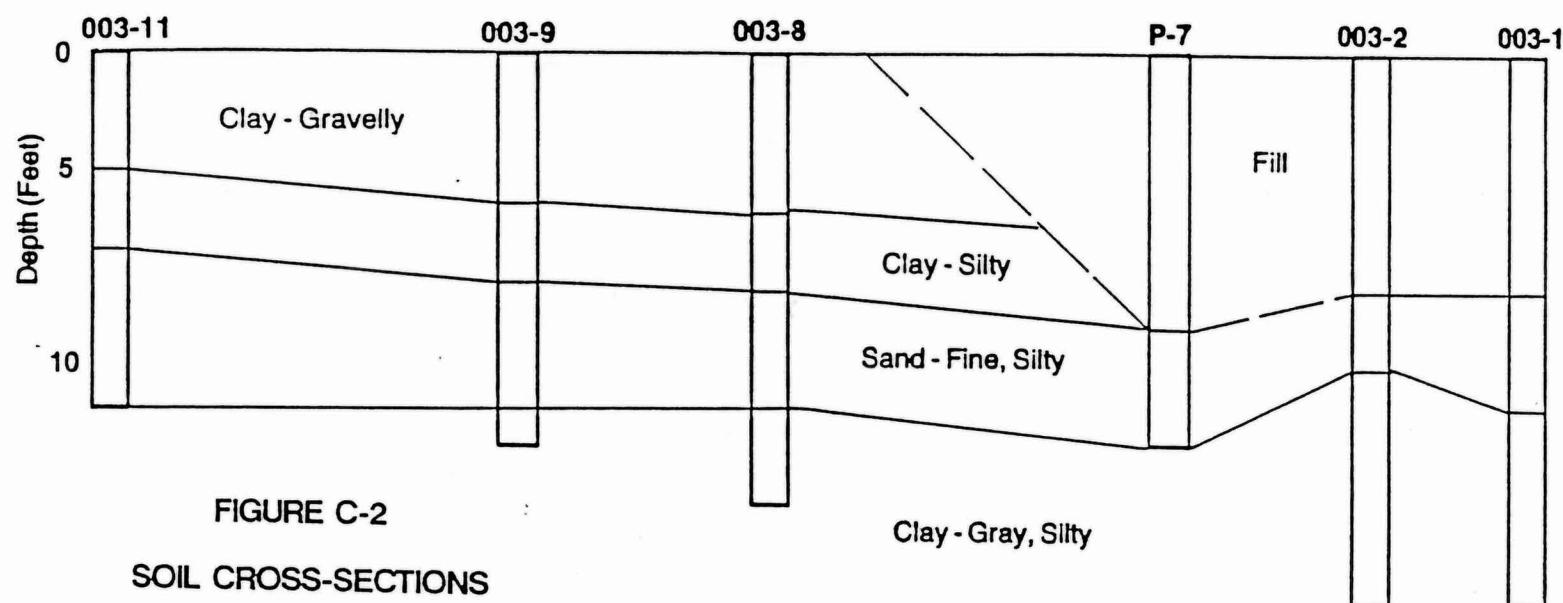
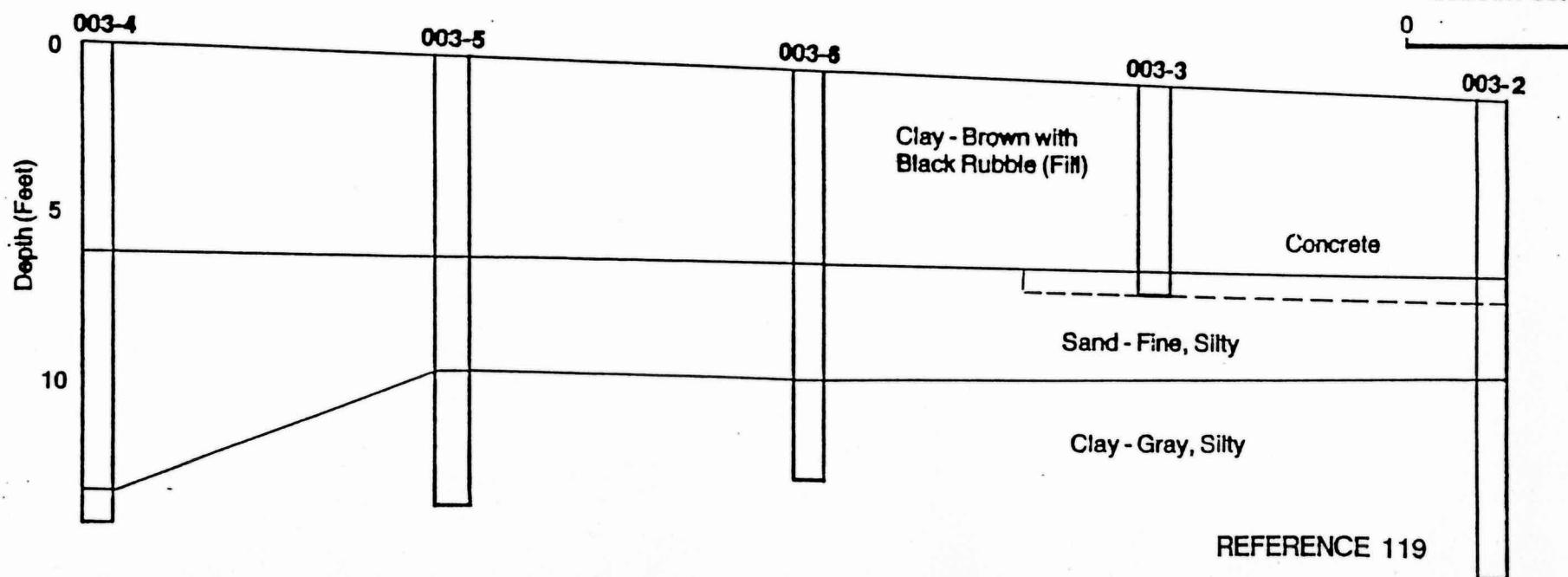


FIGURE C-2
SOIL CROSS-SECTIONS

Cross-Section "A"

Scale in Feet



REFERENCE 119

Cross-Section "B"

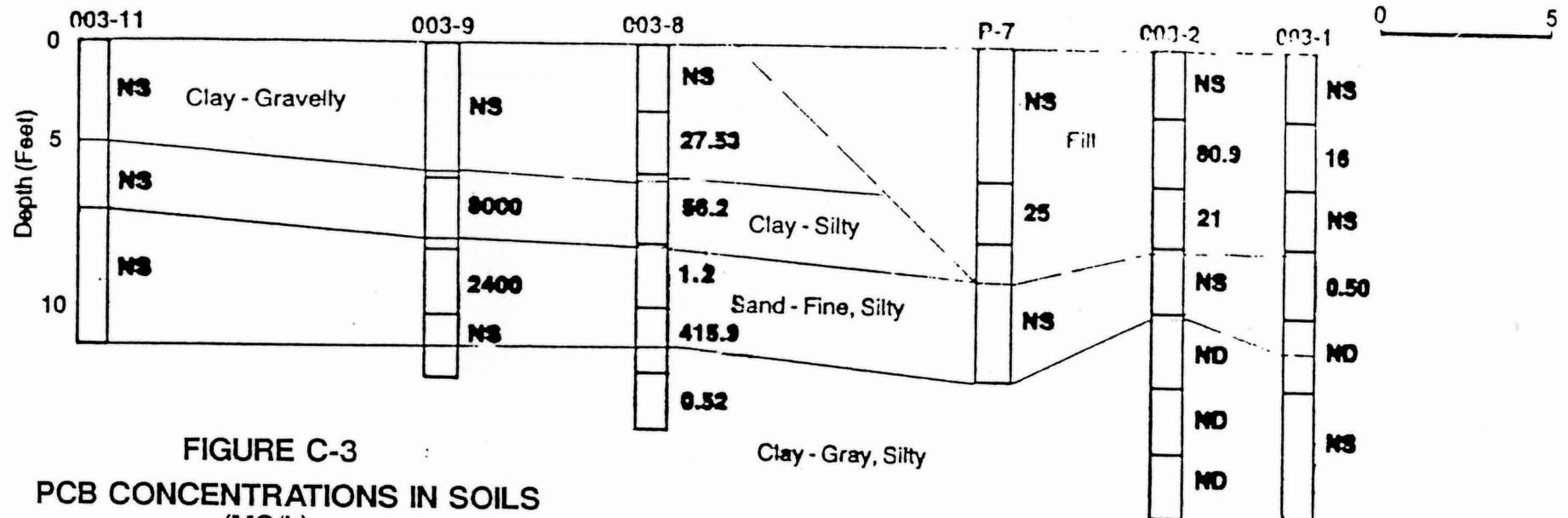
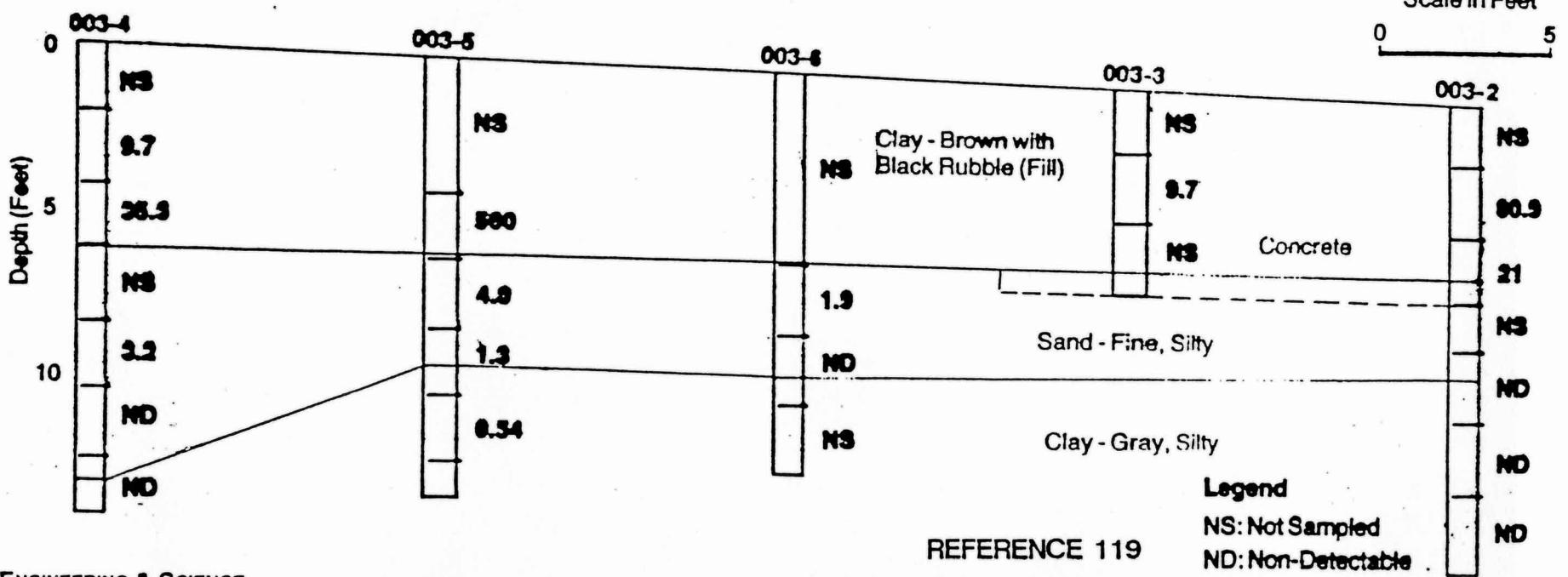


FIGURE C-3

PCB CONCENTRATIONS IN SOILS
(MG/L)

Cross-Section "A"



REFERENCE 119

TABLE C-1

GMC FISHER GUIDE
SYRACUSE, NEW YORK
SUMMARY OF PERMEABILITY DATA

WELL <u>NUMBER</u>	PERMEABILITY			MEASUREMENT
	<u>DEPTH (FT)</u>	<u>(cm/sec)</u>	<u>GEOLOGIC UNIT</u>	
U-1D	11.0-21.0	9.6×10^{-5}	Sand & Silt	Field-Falling Head
U-1D	11.0-21.0	8.5×10^{-5}	Sand & Silt	Field-Rising Head
W-1D	20.5-30.5	2.8×10^{-4}	Sand & Silt	Field-Falling Head
W-1D	20.5-30.5	1.7×10^{-4}	Sand & Silt	Field-Rising Head
W-2D	9.5-19.5	1.0×10^{-4}	Sand & Silt	Field-Falling Head
W-2D	9.5-19.5	1.0×10^{-4}	Sand & Silt	Field-Rising Head
W-3D	13.5-23.5	2.0×10^{-5}	Clay, Little Silt	Field-Falling Head
W-4D	13.0-23.0	1.6×10^{-4}	Silt, Fine Sand	Field-Falling Head
W-5D	18.0-28.0	2.8×10^{-4}	Fine Sand	Field-Falling Head
W-5D	18.0-28.0	3.6×10^{-4}	Fine Sand	Field-Rising Head
W-7D	22.0-32.0	1.5×10^{-5}	Find Sand & Till	Field-Falling Head
W-8D	20.0-30.0	2.9×10^{-5}	Silt	Field-Falling Head
W-9D	18.5-28.5	4.6×10^{-4}	Silt	Field-Falling Head
W-1D	13.0-15.0	1.0×10^{-7}	Silt & Clay	Laboratory (Triaxial)
W-2D	15.0-17.0	3.6×10^{-4}	Fine-Medium Sand	Laboratory (Triaxial)
W-7D	16.0-18.0	1.4×10^{-7}	Silt	Laboratory (Triaxial)
W-9D	9.0-11.0	8.5×10^{-8}	Silt & Clay	Laboratory (Triaxial)
W-2D	21.5-23.0	5.0×10^{-8}	Till	Laboratory (Triaxial)
W-6D	32.0-34.0	6.0×10^{-8}	Till	Laboratory (Triaxial)
W-9D	32.0-34.0	2.5×10^{-8}	Till	Laboratory (Triaxial)

TABLE C-2

VOLATILE FRACTION
ADMINISTRATION BUILDING AREA
(Results Reported in mg/L)

<u>WELL</u>	<u>TCE</u>	<u>trans-1,2-DCE</u>	<u>1,1-DCE</u>	<u>VINYL CHLORIDE</u>
WT-6	0.034	0.002	-	-
WT-7	-	-	-	-
WT-8	0.011	0.006	-	-
WT-9	-	-	-	-
WT-10-S	1.0	0.460	0.004	0.058
W-11-S	-	-	-	-
W-11-D	-	-	-	-
W-3-S*	78.0	13.0	0.016	0.073
W-3-D*	-	-	-	-
D.L.	0.002	0.002	0.002	0.010

*These wells were sampled on June 6, 1985, the results of which initiated this study.

All samples were analyzed; only positive results are reported.

REFERENCE 119

TABLE C-3

PCB RESULTS
OUTFALL 003
(Results Reported in mg/kg)

<u>BORING</u>	<u>DEPTH (feet)</u>	<u>AROCLOL 1242</u>	<u>AROCLOL 1248</u>	<u>AROCLOL 1260</u>
003-1	2 - 4	-	16	-
	6 - 8	0.5	-	-
	8 - 10	-	-	-
003-2	2 - 4	79	-	1.9
	4 - 6	21	-	-
	8 - 10	21	-	-
	10 - 12	-	-	-
	12 - 14	-	-	-
003-3	2 - 4	9.7	-	-
003-4	4 - 6	35	-	0.60
	8 - 10	-	3.2	-
	10 - 12	-	-	-
	12 - 14	-	-	-
003-5	4 - 6	560	-	6.2
	6 - 8	4.0	-	-
	8 - 10	1.8	-	-
	10 - 12	0.54	-	-
003-6	6 - 8	-	1.9	-
	8 - 10	-	-	-
003-7	4 - 6	750	-	-
003-8	2 - 4	27	-	0.53
	4 - 5.5	55	-	1.2
	5.5 - 7.5	1.2	-	-
	7.5 - 9.5	410	-	5.9
	9.5 - 11.5	0.52	-	-
003-9	4 - 6	8000	-	-
	6 - 8	2400	-	-
	8 - 9.5	-	-	-
003-10	6 - 8	4.2	-	-
	8 - 9.5	-	-	-

All depths listed were analyzed; only positive results are reported.

TABLE C-4

VOLATILE FRACTION OF WATER SAMPLES
WASTE TREATMENT AREA

(Results Reported in mg/l)

<u>BORING</u>	<u>TCE</u>	<u>trans-1,2-DCA</u>	<u>1,2-DCA</u>	<u>VINYL CHLORIDE</u>	<u>TOLUENE</u>	<u>1,1-DCA</u>	<u>1,1-DCE</u>	<u>CHLOROFORM</u>	<u>1,1,1,-TCA</u>	<u>METHYLENE CHLORIDE</u>
WT-10	-	-	-	-	-	-	-	-	-	-
WT-11	0.002	-	-	-	-	-	-	-	0.002	0.004
WT-12	2.6	0.025	-	-	-	0.016	0.032	-	-	-
WT-13	2.8	0.540	-	0.025	-	0.025	0.010	-	-	-
WT-14	0.400	6.8	0.010	0.210	0.014	-	-	-	-	-
P-13*	0.270	5.4	-	0.076	-	0.005	0.014	-	0.002	-
P-14*	0.120	8.4	-	0.052	-	-	-	-	0.022	0.015
D.L.	0.002	0.002	0.002	0.010	0.001	0.002	0.002	0.001	0.002	0.002

All samples were analyzed; only positive results are reported.

*These wells were sampled on June 6, 1985, the results of which initiated this study.